

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1-23 (*Canceled*):

24 (*Currently Amended*): An imaging apparatus having an imaging unit which forms an object image and generates an image by photoelectric conversion, a generator which generates a single image from ~~a plurality of images~~ the image obtained by the imaging unit and a plurality of secondary images each obtained by shifting pixels of the obtained image, and a storage unit which stores the single image obtained by the generator in a storage medium, said apparatus comprising:

a detector, arranged to detect spatial frequency characteristics of a plurality of color components of the image obtained by the imaging unit;

a controller, arranged to designate the data format and control supply of an image to the storage unit in correspondence with the detected spatial frequency characteristics; and

a shift unit, arranged to shift the pixels of the image obtained by the imaging unit thereby generating the plurality of secondary images obtained by the imaging unit with respect to each other,

wherein said shift unit changes a shift amount of the pixels in each of the plurality of secondary images in correspondence with a result of comparison between the spatial frequency characteristics of the plurality of color components of the image detected by said detector.

25 (*Canceled*):

26 (*Previously Presented*): The apparatus according to claim 24, wherein said detector detects high-frequency components of the plurality of color components of the image obtained by the imaging unit.

27-29 (*Canceled*):

30 (*Currently Amended*): An imaging method for an imaging apparatus having an imaging unit which forms an object image and generates an image by photoelectric conversion, a generator which generates a single image from ~~a plurality of images~~ the image obtained by the imaging unit and a plurality of secondary images each obtained by shifting pixels of the obtained image, and a storage unit which stores the single image obtained by the generator in a storage medium, the method comprising the steps of:

detecting spatial frequency characteristics of a plurality of color components of the image obtained by the imaging unit;

designating the data format and controlling supply of an image to the storage unit in correspondence with the detected spatial frequency characteristics; and

shifting the pixels of the image obtained by the imaging unit thereby generating the plurality of secondary images obtained by the imaging unit with respect to each other,

wherein said shifting step changes a shift amount of the pixels in each of the plurality of secondary images in correspondence with a result of comparison between the spatial frequency characteristics of the plurality of color components of the image detected in said detecting step.

31 (*Currently Amended*): A computer program product stored on a computer readable medium comprising computer program code, for executing imaging processing of an imaging apparatus having an imaging unit which forms an object image and generates an image by

photoelectric conversion, a generator which generates a single image from ~~a plurality of images~~
the image obtained by the imaging unit and a plurality of secondary images each obtained by
shifting pixels of the obtained image, and a storage unit which stores the single image obtained
by the generator in a storage medium, the method comprising the steps of:

detecting spatial frequency characteristics of a plurality of color components of the image
obtained by the imaging unit;

designating the data format and controlling supply of an image to the storage unit in
correspondence with the detected spatial frequency characteristics; and

shifting the pixels of the image obtained by the imaging unit thereby generating the
plurality of secondary images ~~obtained by the imaging unit with respect to each other~~,

wherein said shifting step changes a shift amount of the pixels in each of the plurality of
secondary images in correspondence with a result of comparison between the spatial frequency
characteristics of the plurality of color components of the image detected in said detecting step.

32-34 (*Canceled*):

35 (*Previously Presented*): The imaging apparatus according to claim 24, wherein each of
pixels of the imaging unit corresponds to one of the plurality of color components in such a
manner that resolutions of the pixels corresponding to the plurality of color components are not
the same.

36 (*Previously Presented*): The imaging apparatus according to claim 35, wherein said shift
unit sets the shift amount in accordance with the resolution of the pixels corresponding to a color
component having a largest high-frequency component among the plurality of color components.

37 (*New*): The imaging apparatus according to claim 24, further comprising a combining unit configured to combine the image obtained by the imaging unit and the plurality of secondary images thereby generating the single image.

38 (*New*): The imaging method according to claim 30, further comprising combining the image obtained by the imaging unit and the plurality of secondary images thereby generating the single image.

39 (*New*): The computer program product according to claim 31, the method further comprising combining the image obtained by the imaging unit and the plurality of secondary images thereby generating the single image.